DOCUMENT-IDENTIFIER: US 6141568 A

TITLE: Battery saving in portable radio

apparatus

----- KWIC -----

Detailed Description Text - DETX (21):

As described above, according to the portable radio apparatus of the present

invention, the presence or absence of any interrupt request generated based on

the operation of any of the specified buttons such as the dialing buttons is

checked at all times. If such an interrupt request is present, the portable

radio apparatus understands or considers that the user is looking at the liquid

crystal display section 2 while the user manipulates the buttons. The portable

radio apparatus resultantly understands or considers that the use state

information should be displayed to the user for any warning or announcement.

If such an interrupt request is absent, the portable radio apparatus

understands or considers that the user does not look at the picture of display

section 2, or it is kept out of use, or it is waiting for receiving radio wave

or under communication. In such a case, the liquid crystal display section and

the backlight are turned off to save the electric power
so that it is not

wastefully used or it does not wastefully <u>display</u> any use state information.

DOCUMENT-IDENTIFIER: US 6079025 A

TITLE: System and method of computer

operating mode control for

power consumption reduction

----- KWIC -----

Brief Summary Text - BSTX (10):

Prior art attempts at conserving power have employed
screen blanking which

reduces the power to the display screen when the screen has not been used for

some period of time. Typically, a timeout circuit senses changes in **screen** 

information and, if no change has occurred for a predetermined timeout period,

the <u>backlight to the screen is turned</u> off for <u>power</u> reduction. While screen

blanking is effective in reducing power for the display screen, no reduction

results in power to the driver circuitry for the display, to the CPU, or to

other parts of the computer. Furthermore, when the screen is blanked, the computer cannot be used until reset.

DOCUMENT-IDENTIFIER: US 5854617 A

TITLE: Circuit and a method for

controlling a backlight of a

liquid crystal display in a

portable computer

----- KWIC -----

Brief Summary Text - BSTX (11):

In order to improve the portability of the personal computers, it is

necessary to minimize the power consumption of a display and to thereby prolong

the service life of a battery, when the commercially available alternating

current power supply is not provided. Conventional LCD displays such as

disclosed, for example, in U.S. Pat. No. 5,056,357 for Data Processing

Machine With Liquid Crystal Display And Control Means For Regulating

Backlighting To The Display issued to Shiraishi et al., U.S. Pat. No.

5,247,286 for Display Control Device For Reducing Power Consumption Of Display

Units issued to Ishikawa, and U.S. Pat. No. 5,313,225 for Liquid Crystal

<u>Display</u> Device issued to Miyadera, incorporate <u>power</u> saving features which seek

to automatically <u>turn off the backlight</u> of a LCD after a predetermined period

in which the information is displayed has lapsed or the LCD <u>display</u> is left inoperative.

DOCUMENT-IDENTIFIER: US 5589848 A

TITLE: Electronic equipment having a

display device

----- KWIC -----

Detailed Description Text - DETX (15):

In accordance with the present invention, the illumination lamp 6 is kept

turned on or off before the processing is carried out, and the illumination

lamp 6 is turned off during the execution of processing. When the processing

result is displayed, the <u>illumination lamp 6 is turned</u> off if the turn-off

indication is issued or when the predetermined time has elapsed since the

<u>display</u> output has been extinguished. Accordingly, the power consumption of

the battery 9 can be reduced.

Detailed Description Text - DETX (33):

In accordance with the present invention, the

illumination lamp is

automatically turned off except when the illumination of the display device is

required, and the power consumption of the illumination power supply can be

reduced. Further, in case of error such as input error
or program error, a

message is displayed on the display device and the illumination lamp is blinked

to call attention of the operator.

L Number	Hits	Search Text	DB	Time stamp
1	1	(completion or complet\$3 or finish\$3 or end\$2) with	USPAT	2003/06/26 00:27
		(receiv\$3 or transmission or transmit\$4 or receiption)	1	
		near3 (data or information) same (backlight\$3 or	[	
		backlit\$3 or illuminat\$3) same (reduc\$4 or save or saving		
		or saved) near5 power	1	
2	61061	(complet\$3 or finish\$3 or end\$2) with (receiv\$3 or	USPAT;	2003/06/25 23:04
		transmission or transmit\$4 or receiption) near3 (data or	US-PGPUB;	
		information)	JPO;	
			DERWENT	
7	151	(completion or complet\$3 or finish\$3 or end\$2) with	USPAT	2003/06/25 23:07
		(receiv\$3 or transmission or transmit\$4 or receiption)		
		near3 (data or information) same (reduc\$4 or save or		
_	_	saving or saved) near5 power		
8	7	("5175870"   "5193209"   "5230084"   "5594738"	USPAT	2003/06/25 23:21
		"6049532"   "6049724"   "6058289").PN.		
9	0	6339713.URPN.	USPAT	2003/06/25 23:23
10	185	turn\$2 near3 (backlight\$3 or backlit\$3 or illuminat\$3 or	USPAT	2003/06/26 00:27
		light or lighting) with (reduc\$4 or save or saving or saved)		
		near5 (power or energy)		
11	53	("4279020"   "4316247"   "4317180"   "4365290"	USPAT	2003/06/25 23:34
		"4381552"   "4398192"   "4463440"   "4479191"		
		"4509148"   "4538231"   "4545030"   "4611289"		
		"4667289"   "4698748"   "4766567"   "4780843"		
İ		"4809163"   "4823292"   "4835681"   "4841440"		
		"4881205"   "4907183"   "4922450"   "4963769"		
		"4968900"   "4974180"   "4980836"   "4991129"		
		"4996706"   "5021679"   "5025387"   "5041964"		
		"5083266"   "5119377"   "5123107"   "5129091"		
		"5151992"   "5167024"   "5175845"   "5201059"		
		"5218704"   "5222239"   "5239652"   "5247164"		
		"5247213"   "5247655"   "5249298"   "5251320"		
		"5339446"   "5396635"   "5404541"   "5892959"		
		"6079025").PN.		
12	68	turn\$2 near3 (backlight\$3 or backlit\$3 or illuminat\$3 or	USPAT	2003/06/26 00:33
		light or lighting) with (screen or monitor or display) same	İ	
		(reduc\$4 or save or saving or saved) near5 (power or	[	
	_	energy)		
13	9	("5230055"   "5396443"   "5421018"   "5548764"	USPAT	2003/06/25 23:46
		"5715464"   "5822598"   "5875345"   "6032256"		1
	_	"6134667").PN.		
14	4	("3877001"   "4536761"   "5881377"   "5894580").PN.	USPAT	2003/06/26 00:04
27	16	(completion or complet\$3 or finish\$3 or end\$2) with	USPAT	2003/06/26 00:34
		(receiv\$3 or transmission or transmit\$4 or receiption)		
		near3 (data or information or message) and (turn\$2		
		near3 (backlight\$3 or backlit\$3 or illuminat\$3 or light or		
		lighting) with (reduc\$4 or save or saving or saved) near5		
	_	(power or energy))		
28	7	(completion or complet\$3 or finish\$3 or end\$2) with	USPAT	2003/06/26 00:36
		(receiv\$3 or transmission or transmit\$4 or receiption)		
		near3 (data or information or message) and (turn\$2		
		near3 (backlight\$3 or backlit\$3 or illuminat\$3 or light or		
		lighting) with (screen or monitor or display) same		
		(reduc\$4 or save or saving or saved) near5 (power or		
		energy))		

29	2	((completion or complet\$3 or finish\$3 or end\$2) with	USPAT	2003/06/26 00:36
		(receiv\$3 or transmission or transmit\$4 or receiption)		
		near3 (data or information or message) and (turn\$2		
		near3 (backlight\$3 or backlit\$3 or illuminat\$3 or light or		1
		lighting) with (screen or monitor or display) same		
		(reduc\$4 or save or saving or saved) near5 (power or		
		energy))) not ((completion or complet\$3 or finish\$3 or		
		end\$2) with (receiv\$3 or transmission or transmit\$4 or		
		receiption) near3 (data or information or message) and		
		(turn\$2 near3 (backlight\$3 or backlit\$3 or illuminat\$3 or		
		light or lighting) with (reduc\$4 or save or saving or saved)		
		near5 (power or energy)))		
30	33	(receiv\$3 or transmission or transmit\$4 or receiption)	USPAT	2003/06/26 00:36
		near3 (data or information or message) and (turn\$2		
		near3 (backlight\$3 or backlit\$3 or illuminat\$3 or light or		
		lighting) with (screen or monitor or display) same		
		(reduc\$4 or save or saving or saved) near5 (power or		
		energy))		
31	28	((receiv\$3 or transmission or transmit\$4 or receiption)	USPAT	2003/06/26 00:36
		near3 (data or information or message) and (turn\$2		
		near3 (backlight\$3 or backlit\$3 or illuminat\$3 or light or		
		lighting) with (screen or monitor or display) same		
		(reduc\$4 or save or saving or saved) near5 (power or		
		energy))) not ((completion or complet\$3 or finish\$3 or		
		end\$2) with (receiv\$3 or transmission or transmit\$4 or		
		receiption) near3 (data or information or message) and		
		(turn\$2 near3 (backlight\$3 or backlit\$3 or illuminat\$3 or		
		light or lighting) with (reduc\$4 or save or saving or saved)		
20	2014	near5 (power or energy)))	LICDAT	0000/00/00 00 45
32	3014	345/204,211,212.ccls. or 713/300,320-324.ccls.	USPAT	2003/06/26 00:45
33	270	345/102.ccls.	USPAT	2003/06/26 00:45